

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/004346

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 C09K19/58 H01L51/30

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 C09K H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ITO, SATOSHI ET AL: "A new synthesis of '2,3!naphthoporphyrins" CHEMICAL COMMUNICATIONS (CAMBRIDGE) , (11), 893-894 CODEN: CHCOFS; ISSN: 1359-7345, 2000, XP002288611 the whole document	1,3,10
A	EP 0 921 579 A (LUCENT TECHNOLOGIES INC) 9 June 1999 (1999-06-09) page 3 page 9; claims 1-9	1,3,10
A	EP 0 917 216 A (LG ELECTRONICS INC) 19 May 1999 (1999-05-19) page 12 - page 15	1,3,10

 Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
15 July 2004	29/07/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Bader, K

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/004346

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 0921579	A 09-06-1999	EP 0921579	A2 09-06-1999	
		JP 11251601	A 17-09-1999	
		TW 399338	B 21-07-2000	
		WO 9927000	A1 03-06-1999	
EP 0917216	A 19-05-1999	CN 1217582	A 26-05-1999	
		EP 0917216	A2 19-05-1999	
		JP 11233263	A 27-08-1999	
		US 6248458	B1 19-06-2001	
		US 2004104397	A1 03-06-2004	
		US 2001031380	A1 18-10-2001	